Work Order ID 122903 Tuesday, July 29, 2014 2:25:35 PM					*122				Page 1			
Item ID: Revision ID: Item Name: Start Date:	D3572-3 Guide 7/29/14	Start Qty: 2	14 00		Accept	*N900		100	<b>)</b> *	Setup Sta	17	S1* S2*
Required Date: Reference:		Req'd Qty: 2		*24* *24*	٠.,	Cust Item Customer:						
Approvals:	Process Pla	n:WM	Date:	30/14	Tooling:	D	ate:	_	H	Run Sta	rt *N	R1*
	QC:		Date:		<b>SPC</b> (Y/N):	D	ate:			Sto	, *V	R2*
Sequence ID/ Work Center II	D	Operation Description			Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Rev	ision Nbr		***						2-3	- Tumber	
D3572	Rev	D										
*100 *100* Bandsaw Jeaspa Bandsaw		BAND SAW  Mem  Cut b	o olank .500" long		0.00				24	<u> </u>		MM 14/08/08
<sup>110</sup> <b>*11∩</b> *		HAAS CNC VER	TICAL MACHININ	G #1	0.00				24	$\sim$		DAS 20
HAAS 1 HAAS CNC vertical	machine #1	<b>Mem</b> 1- Mi per dv		5 Rev: <u>A</u>	0.00 & Dwg D3572 Rev:	_ 2-Deburr			_29_			<b>20</b> 9-89 14-08-10
<sup>120</sup> <b>*1∙2∩*</b>		QC2- Inspect parts	s off machine FAI/FA	AIB	0.00				0.4/	۰/		DAS

0.00

Memo

Quality Control

DQA:			Date:		. <u> </u>	WORK ORDER NON		אובטו	PANANCE / HE	DDATE			DART
QA Closed:			Date:			WORK ORDER NON			AIVIAIVEL / OF		ork Order up	date only	AEROSPACE
Work Orde	ar.					DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
WORK OTUE	-					Rework	ıl		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	i.					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Quality
, aici	•0.					Use-as-is	1		noforming	Finishing	-1	re/Packaging	Other
NCR N	lo.					Suspected Unapproved			Large Fab	Composite		Supplier	
	•										-		
Root					Desc	ription of work order update		Initial	Acti		Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	nief Eng	Descri	iption	Date	Verification	QC Inspector
Design													
Doc/Data													
Equip/Tooling							ļ						
Handling/Pre													
Material	Ш												
Operator	Ш												
Offset/Setup	Щ												
Process							-						
Supplier	Щ												
Training	Щ								İ				
Transport	Щ						Ì						
Unapproved									<u> </u>		<u> </u>		<u> </u>
				•••			FA	ULI CA	TEGORY				
Landi						General	_	71:-/5	) - a	-	Outside Dim	onsions [	Pressure/Forced
	$\vdash$	Bending			-	Bend BOM/Boute	$\vdash$	Grain	Program	<u> -</u>	Over/Under	<b>—</b>	Set-up
	<u> </u>	Centre No	ot Concer	itric	⊢	BOM/Route Broken/Damage/Defect	-	Hardwa	\r_0	-	Part Incorre	<u> </u>	Temperature/Cure
	_	Cracks	ale/Diamla	Maria	-	Burrs	$\vdash$	-	ire ion Incomplete/Un	ogualified	Part Lost/Mi	_	Weld
		Crimp/Kii	тк/кірріе	/ wave	-	₹	$\vdash$	<b>⊣</b> '	tions Incomplete/U		Part Moved	331118	Wrong Stock Pulled
	<u> </u>	Crushing			-	Contamination Countersink	-		gned/off center	- Inclear	Positioned V	ـــ Vrong	
	_	Crushing Heat Trea	<b>.</b> +		$\vdash$	Cut Too Short	$\vdash$	Mislabe		<u> </u>	Power Loss/	_	Other
	$\vdash$	Inspectio		Tubo		Drawing	-	Misrea		<u> </u>	J. 044CI 1033/		Tourier
	$\vdash$	Marks/Ch	•	iune	$\vdash$	Drill Holes		Off-set					·
	$\vdash$	Turning S			$\vdash$	Finish	$\vdash$	-	Calibration	• .			
		Wave/Tw				Fit/Function		- 4	Sequence				
I		, , , , ,				1		1					

Work Orde Tuesday, July 29				*122	2903*						Page 2
Item ID: Revision ID: Item Name:	D3572-3 Guide			Accept	*N900	0040	100	ገ*	Setup	Start Stop	1021
Start Date: Required Date: Reference:	7/29/14 7/29/14	Start Qty: 24.00 Req'd Qty: 24.00	*24	=	Cust Item :	ID:					IVIA
Approvals:	Process Pl QC:	an:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	*NR1*
Sequence ID/ Work Center II 130 *130*		Operation Description QC8- Inspect parts - second		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty	ect l	*NR2* Reject Insp. Number <sub>DA</sub> Stamp 37 9-89
QC Quality Control		Memo		0.00					4	· .	
140 <b>*1_1\(\)</b> * Packaging		Identify as per dwg & Stor	ck Location: WA	0.00				24	X:	DAS 28	AUG 1 1 2014

150

QC21- Final Inspection - Work Order Release

0.00

\*150\*

Memo

0.00

Quality Control

MLS 1408-11

DQA:			Date:				_						TOART
QA Closed:			Date:			WORK ORDER NON-	-CC	ONFOI	RMANCE / UPDATE	W	ork Order up	odate only	AEROSPACE
-					,	DISPOSITION			AGAINST	DE	PARTMENT	/PROCESS	
Work Orde Part N	_					Rework Scrap			Skid-tube Crosstube Machining Small Fab	-	Pro	Water Jet d. Eng. Coor.	Engineering Quality
NCR N			-			Use-as-is Suspected Unapproved			noforming Finishing Large Fab Composite		4	re/Packaging Supplier	Other
Root	Į				Desc	ription of work order update		Initial	Action		Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved													2 ST 11 ST 12 ST 1
							FA	ULT CA	TEGORY				· · · · · · · · · · · · · · · · · · ·
Landir	В	ending				General Bend		- A	Program		Outside Dim	<b></b>	Pressure/Forced
	$\Box$ c	racks	ot Concer nk/Ripple			BOM/Route Broken/Damage/Defect Burrs		Grain Hardwa Inspect	are ion Incomplete/Unqualified		Over/Under Part Incorre Part Lost/Mi	ci	Set-up Temperature/Cure Weld
		uffs crushing				Contamination Countersink		Misali	tions Incomplete/Unclear gned/off center		Part Moved Positioned V Power Loss/		Wrong Stock Pulled
		/larks/Ch	n Strip in latter			Cut Too Short Drawing Drill Holes		Mislabe Misrea Off-set	d			onike ,	Tourer.
		_	equence		$\vdash$	Finish Fit/Function	$\vdash$		Calibration Sequence				·

## **Picklist Print**

Tuesday, July 29, 2014 2:25:35 PM

Work Order ID: 122903

\*122903\*

Parent Item:

D3572-3

\*D3572-3\*

Parent Item Name: Guide

**Start Date:** 7/29/14

Required Date: 7/29/14

Page 1

**Start Qty: 24.00** 

Required Qty: 24.00

Comments:

IPP Rev:A New Issue 07-02-07 JLM

IPP rev B rev.B dwg EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B0.750X01.50 0	•	Purchased	No				f	35.4470	<u> </u>	1	<del>- · · · · · · · · · · · · · · · · · · ·</del>		· · · · · ·

## \*M6061T6R0 750X01 500\*

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<b>Location</b>	Loc Oty	Loc Code		-
MAT001	35.447			
129375	32.627	•	•	
m127818	1.3			
m128247	1.27			
m128866	0.25	<b>i.</b>		
M 119325				1

LI 176357

DQA:			Date:										<b>1</b>	1 PT
						WORK ORDER NON-	-CC	ONFO	RMANCE / UPDATE			_	A E	ROSPACE
QA Closed:			Date:							W	ork Order up	date only		
Mark Ords						DISPOSITION			AGAINS	T DE	PARTMENT	PROCESS		
Work Orde	er: •					Rework	ıİ		Skid-tube Crosstub	٦	1	Water Jet	Enginee	ring
Part N	lo.					Scrap			Machining Small Fa	b	-1	d. Eng. Coor. re/Packaging	Qu	ality ther
NCR N	lo.					Use-as-is Suspected Unapproved		rnern	noforming Finishin Large Fab Composit	~⊢	, Recyston	Supplier	<u> </u>	
Root					Desc	ription of work order update	ı	nitial	Action		Sign &			<del></del>
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		Date	Verification	QC In:	spector
Design														
Doc/Data									·					
Equip/Tooling						•								
Handling/Pre						•								
Material													İ	
Operator			<u> </u>						•					
Offset/Setup									,					
Process														
Supplier						· · · · · · · · · · · · · · · · · · ·								
Training														
Transport					,									
Unapproved			,											
<u> </u>							FA	ULT CA	TEGORY					
Landi		1			_	General	_	1		_	7	. г	¬_ ,	
		Bending			<u> </u>	Bend		1	Program	-	Outside Dim	<u> </u>	Pressure/I	-orcea
		Centre No	ot Concer	ntric	.	BOM/Route	<u> </u>	Grain		$\vdash$	Over/Under	F	Set-up	10
		Cracks			<u> </u>	Broken/Damage/Defect	$\vdash$	Hardwa		$\vdash$	Part Incorred	F	Temperati	ure/Cure
	-	Crimp/Kir	nk/Ripple	/Wave	<u> </u>	Burrs	$\vdash$	1 .	ion Incomplete/Unqualified	$\vdash$	Part Lost/Mi	ssing	Weld	
		Cuffs				Contamination	<u>_</u>	-1	tions Incomplete/Unclear		Part Moved	į L	Wrong Sto	ock Pulled
		Crushing				Countersink	$\vdash$	-1	gned/off center	_	Positioned V			
		Heat Trea			<u> </u>	Cut Too Short	<u></u>	Mislabe			Power Loss/	Surge [	Other	
		Inspectio		Tube	<u> </u>	Drawing	<u></u>	Misrea						
		Marks/Ch				Drill Holes	<u></u>	Off-set						
		Turning S	-			Finish	<u></u>	4	Calibration					
1		Wave/Tw	ist in Tub	ne .		Fit/Function	1	Out of	Sequence					

DART AEROSPACE LTD	Work Order:	199903.
Description: Guide	Part Number:	D3572-3
Inspection Dwg: D3572 Rev: D		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

X	First Article		Prototype
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
R0.19	+/-0.030	. 190			Rad	garige
0.188	+/-0.010	. 188			,5408	Vein
R0.13	+/-0.030	.130	/		01	angl
1.47	+/-0.030	1.473	<b>V</b>			
0.38	+/-0.030	.377	/			1 - 1-
0.220	+/-0.010	.221	V		1	
0.03 chamfer	+/-0.030	.032		, , ,	V	
R0.06	+/-0.030	.062			Rad ga	agl
Grain Direction	N/A				<i>f</i>	1
	<del>,</del>					

DAS DAS

Measured by:	<b>20</b> 9-89	Audited by:	<b>37</b> 9-89	Prototype Approval:	N/A
Date:	14-08-10	Date:	14.08.11	Date:	N/A

Date	Change	Revised by	Approved
07.05.01	New Issue	KJ/JLM	
08.04.15	Dimensions updated per Dwg Rev. C	KJ/DD,	1.1
09.05.15	Dwg Rev updated	KJ OK	AV.
	07.05.01 08.04.15	07.05.01 New Issue 08.04.15 Dimensions updated per Dwg Rev. C	07.05.01 New Issue KJ/JLM 08.04.15 Dimensions updated per Dwg Rev. C KJ/DD

8 5 ITEM QTY -041 QTY -043 QTY -044 PART NUMBER DESCRIPTION Νo. D3572-041 **GUIDE ASSEMBLY** 2 D3572-043 GUIDE ASSEMBLY (UH-1) SHOP COPY 3 D3572-044 **GUIDE ASSEMBLY (UH-1) (OPP)** RETURN TO D3572-1 11 TUBE ENGINEERING 12 4 4 D3572-3 GUIDE Đ D 3 UNCONTROLLED COPY 13 D3572-5 BRACKET 14 D3572-7 DELETED AT REV C SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER Ċ В **D3572-041 GUIDE ASSEMBLY** D3572-043 GUIDE ASSEMBLY (UH-1) D3572-044 GUIDE ASSEMBLY (UH-1) REDRAWN IN "B" SIZE FORMAT TO CURRENT STANDARDS. ADD -043, -044 FOR UH-1. SEE PAR 09-017. D AJS 09.04.17 REMOVE D3572-7 С 07.06.01 LΕ FOR D3573-3 0.03 CHMF WAS 0.06; ADD TYP TO FILLET В LE 07.04.20 NOTES:
1) MATERIAL: NONE
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT GREY SANDTEX (4.3.5.6) PER DART QSI 005 4.3
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED NEW ISSUE Α LE 07.03.29 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA 4) UNITS: INCHES UNLESS OTHERWISE NOTED CHECKED DRAWING NO. 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX REV. D 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3572-XXX" USING FINE POINT PERMANENT INK MARKER D3572 MFG. APPR 7) WEIGHT -041: 1.34 lbs -043/-044: 1.42 lbs 8) WELDING: PER DART QSI 004 SHEET 1 OF APPROVED TITLE SCALE **GUIDE ASSEMBLY** DE APPR. NTS DATE COPYRIGHT © 2007 BY DART AEROSPACE LTD 09.04.17

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